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[54] IMMUNOGLOBULIN VARIANTS

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[52] U.S. Cl. .... **530/387.3; 530/350; 530/388.2;**  
424/133.1

[58] Field of Search ..... **530/387.3, 350,**  
**530/388.2; 424/133.1**

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### [57] ABSTRACT

Variant immunoglobulins, particularly humanized antibody polypeptides are provided, along with methods for their preparation and use. Consensus immunoglobulin sequences and structural models are also provided.

**15 Claims, 12 Drawing Sheets**

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**FIG. 1A**

	10	20	30	40
4D5	DIVMTQSHKFMSTSVGDRVSITCKASQDVNTAVAWYQQKPGHSPKLL			
HU4D5	DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLL			
HU <sub>V<sub>L</sub></sub> $\kappa$ I	DIQMTQSPSSLSASVGDRVTITCRASQDVSSYLAWYQQKPGKAPKLL			
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	-----			
	<b>V<sub>L</sub>-CDR1</b>			

	60	70	80	90	100
4D5	GVPDRFTGNRSGTDFFTFTISSVQAEDLAVYYCQQHYTTPPTFGGGT				
HU4D5	GVPSRFSGSRSGTDFTLTISLQPEDFATYYCQQHYTTPPTFGQGT				
HU <sub>V<sub>L</sub></sub> $\kappa$ I	GVPSRFSGSGSGTDFTLTISLQPEDFATYYCQQYNSLPYTFGQGT				
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	<b>V<sub>L</sub>-CDR3</b>				

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

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Litigation and bankruptcy checks for companies and debtors.

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Sync your system to PACER to automate legal marketing.